WHAT IS CLAIMED IS:

1. A device to extend the useful life of a lubricant in an EGR equipped engine comprising:

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- a) A chemical filter placed in the EGR stream
- b) A heat exchanger /cooler placed in the upstream of the filter to reduce the temperature of said EGR stream and to increase the relative humidity.

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- 2. A device as in Claim 1 wherein the chemical filter is placed in said EGR stream such that the relative humidity is greater than about 20%.
- 3. A device as in Claim 1 wherein the chemical filter is placed in said EGR stream such that the preferred relative humidity is greater than about 50%.
 - 4. A method to extend the useful life of an EGR equipped internal combustion engine using the system described in Claim 1.
- 5. A device to extend the useful life of a lubricant in an EGR equipped engine comprising:
 - a) An optional chemical filter placed in the EGR stream
 - b) A chemical filter placed just before the intake manifold
- 25 c) A heat exchanger / cooler placed in the upstream of the chemical filters to reduce the temperature of said EGR stream and to increase the relative humidity.

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- 6. A device as in Claim 5 wherein the chemical filter is placed in said locations such that the relative humidity is greater than about 20/.
- 7. A device as in Claim 5 wherein the chemical filter is placed in said locations such that the preferred relative humidity is greater than about 50%.
 - 8. A method to extend the useful life of an EGR equipped internal combustion engine using the system described in Claim 5.
- 9. A device to extend the useful life of a lubricant in an EGR equipped engine comprising:
 - a) A chemical filter placed in the EGR stream

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- b) A heat exchanger / cooler placed in the upstream of the chemical filter to reduce the temperature of said EGR stream and to increase the relative humidity
- c) An oil filter capable of neutralizing acids in the engine lubricant
- 10. A device as in Claim 9 wherein the chemical filter is placed said locations such that the relative humidity is greater than about 20%.
 - 11. A device as in Claim 9 wherein the chemical filter is placed said locations such that the preferred relative humidity is greater than about 50%.
- 25 12. A method to extend the useful life of an EGR equipped internal combustion engine using the system described in Claim 9.
 - 13. A device to extend the useful life of a lubricant in an EGR equipped engine comprising:

a) An optional chemical filter placed in the EGR stream

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- b) A chemical filter placed just before the intake manifold
- c) A heat exchanger / cooler placed in the upstream of the chemical filters to reduce the temperature of said EGR stream and to increase the relative humidity
- d) An oil filter capable of neutralizing acids in the engine lubricant.
- 14. A device as in Claim 13 wherein the chemical filter is placed said locations such that the relative humidity is greater than about 20%.
 - 15. A device as in Claim 13 wherein the chemical filter is placed said locations such that the preferred relative humidity is greater than about 50%.
- 16. A method to extend the useful life of an EGR equipped internal combustion engine using the system described in Claim 13.

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